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Amendments to the Specification:

Please replace the third paragraph on page 13, lines 16-27 of the specification with the following paragraph:

The table lookup engine 200, as shown in figure 2, comprises an input FIFO buffer 202 connected to the input of a distributor 204. the <u>The</u> output of the distributor is connected in parallel to a plurality of lookup state machines 206a, 206b, 206c, 206d. Each lookup state machine 206a, 206b, 206c, 206d has access to a storage means. The storage means comprises a memory arbiter 208 and a plurality of parallel independent memory banks 212a, 212b. <u>The memory banks 212a, 212b respectively contain look up table 213a, 213b.</u> Each lookup state machine 206a, 206b, 206c, 206d is connected to the input of a collector 210. The output of the collector 210 is connected to an output FIFO buffer 214.